

ABSTRACT OF THE DISCLOSURE

In a process for reading fractions of an interval between contiguous photo-sensitive elements in a linear optical sensor, of a type used in a goniometer, an angle measured is an angle formed with a reference axis of the goniometer, perpendicular to the linear optical sensor, by a light beam which is trained on the optical sensor by an optical device. The process comprises: a reading of a current image constituted by an order totality of intensities of incident radiations read on contiguous photosensitive elements; processing of data taken from the current image by means of a process which converges towards a result defining, with respect to an origin determined by an intersection of the reference axis with an axis of the sensor, a distance d of a point of incidence on the sensor of an ideal optical axis of the light beam.